

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Raymond G. Beausoleil, William J. Munro, Timothy P. Spiller, Kae Nemoto, and Sean D. Barrett

Assignee: Hewlett-Packard Development Company, L.P.

Title: Detecting One or More Photons From Their Interactions With Probe Photons in a Matter System

Serial No.: Not assigned yet Filing Date: October 3, 2003

Examiner: Not assigned yet Group Art Unit: Not assigned yet

Docket No.: 200313970-1

San Jose, California
October 3, 2003

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER CFR § 1.97(b)

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, Applicants call to the attention of the Examiner the documents listed on the attached substitute PTO Form-1449A.

Copies of the listed documents are not enclosed. The documents were cited or submitted in U.S. Patent Application No. 10/412,019, filed on April 11, 2003, which the present application relies on for an earlier effective filing date under 35 U.S.C. 120.

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

No fee is believed required for submission of this information disclosure statement.

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ER 527 504 717 US

Respectfully submitted,

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FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200313970-1

APPLICATION NO.

CONFIRMATION NO

APPLICANT

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GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | PUBLICATION DATE | NAME | Pages, Columns, Lines Where Relevant Passages or Figures Appear |
|---------------------|----|--------------------|---------------------|-------------|--|
| | 1A | 5,740,117 | April 14, 1998 | Bona et al. | ALL |
| | 1B | | | | |
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| | 1D | | | | |
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FOREIGN PATENT DOCUMENTS

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| | 1L | | | | | |
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| | 1P | | | | | |

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

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| | 1Q | Chiao, Raymond Y. and Milonni, Peter W., "Fast Light, Slow Light," Optics and Photonics News, pages 26-30 (June 2002). |
| | 1R | D'Ariano, G.M. et al., "State Preparation By Photon Filtering," arXiv:quant-ph/9906077v1, pages 1-9 (June 21, 1999). |
| | 1S | Juzeliunas, G. et al., "Storing and Releasing Light in a Gas of Moving Atoms," arXiv:quant-ph/0210123v1, pages 1-4 (Oct 16, 2002). |

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| 2Q | Leonhardt, Ulf, "A Primer to Slow Light," arXiv:gr-qc/0108085v2, pages 1-20 (January 9, 2002). |
| 2R | Lloyd, Seth et al., "Quantum Computation Over Continuous Variables," Physical Review Letters, Vol. 82, No. 8, pages 1784-1787 (Feb. 22, 1999). |
| 2S | Pittman, T.B. and Franson, J.D., "Cyclical Quantum Memory for Photonic Qubits," Pages 1-4 (July 8, 2002) |

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| | 3Q | Rostovtsev, Yuri et al., "Slow, Ultraslow, Stored, and Frozen Light," Optics and Photonics News, pages 44-48 (June 2002). |
| | 3R | Wang, Hai et al., "Enhanced Kerr Nonlinearity via Atomic Coherence in a Three-Level Atomic System," Physical Review Letters Vol. 87, No. 7, pages 073601-1 to 073601-4 (August 13, 2001) |
| | 3S | |

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